



FPL's St. Lucie Nuclear Power Plant

Safely Managing Used Fuel

Topics

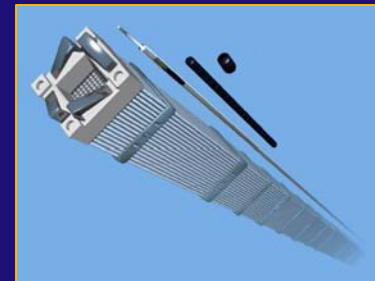
- Storage of used fuel
- Nuclear industry trend
- NRC's regulatory role
- Dry storage design

Used Fuel Storage

- Used fuel safely stored on site
- After more than 30 years of operation, more storage space needed



Uranium Fuel Pellet



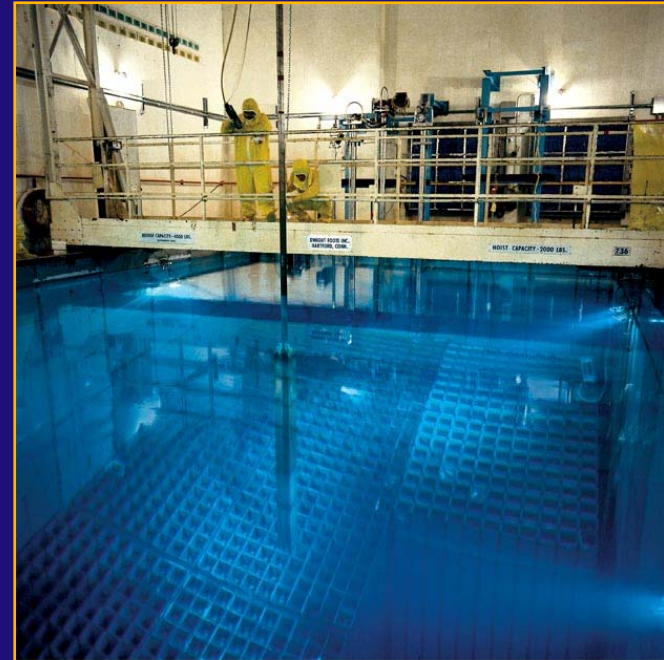
Fuel Assembly



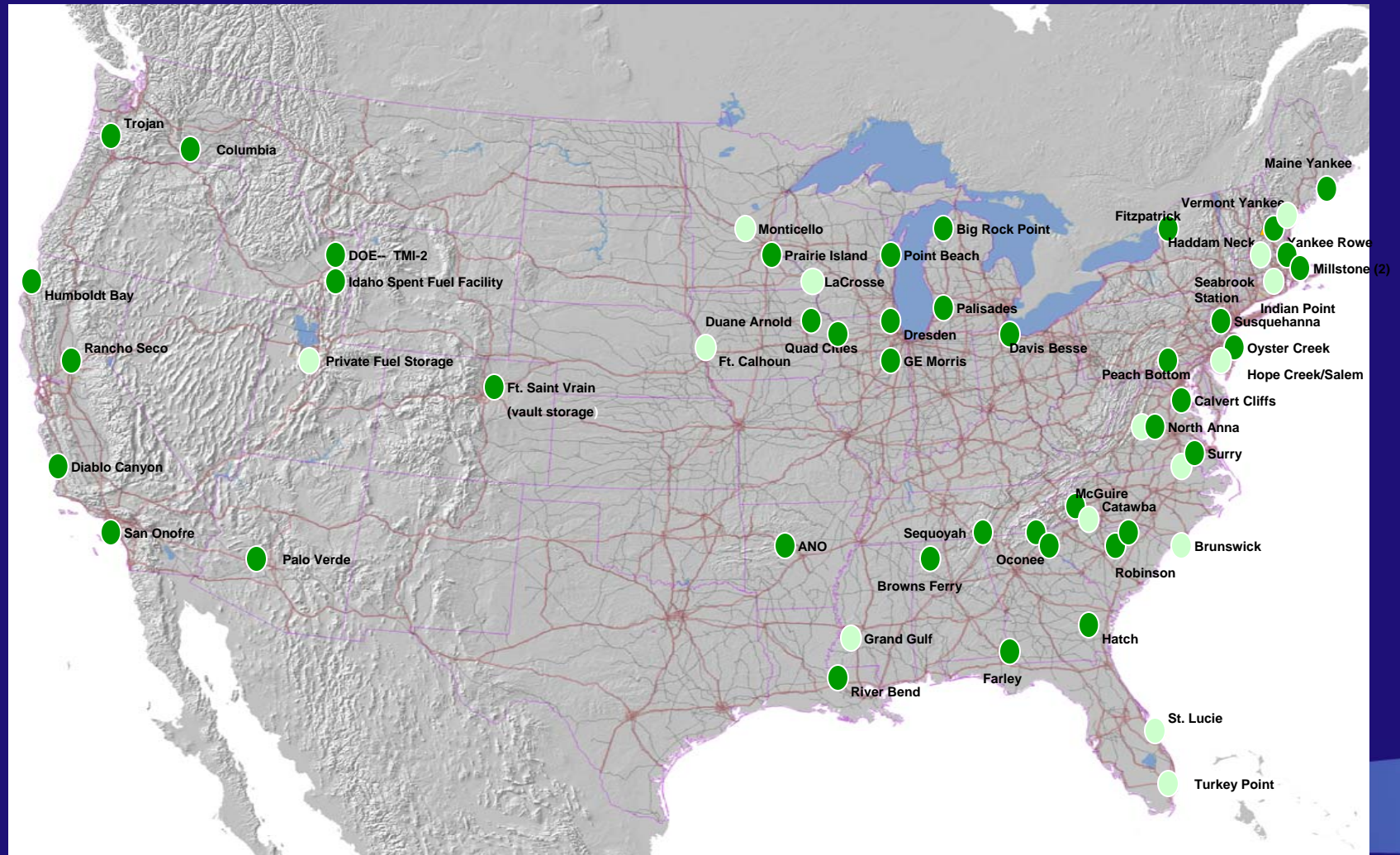
Storage Pool

Additional Storage Space

- Actions taken to expand storage
- Storage essential so plant can continue providing safe, reliable and low-cost power
- Storage capacity:
 - Unit 1: 2008
 - Unit 2: 2010



Dry Storage -- A Nuclear Industry Trend



FPL

- Dry storage in use
- Planned dry storage

NRC's Regulatory Role

- Oversight for dry storage facilities
- Vigorous analysis of site
- Container design requirements

Dry Storage Process



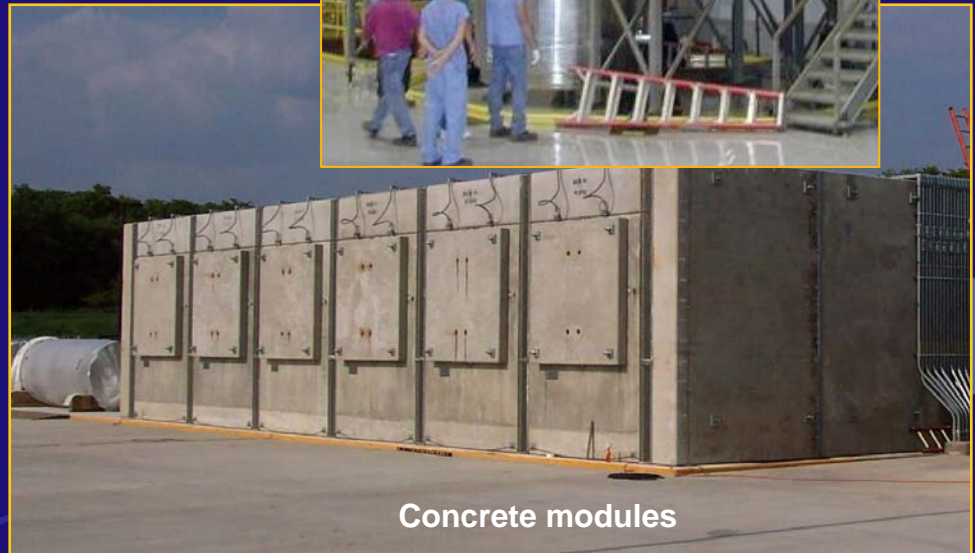
Designed For Protection

- Concrete and steel containers:
 - allow for radiation shielding
 - provide for protection from natural disasters

Stainless-steel canister



Concrete modules



Dry Storage Is Clean

- Metal canister is dried, sealed and inspected
- Canister, concrete modules and foundation pad are clean



Schedule for Dry Storage

- Site preparation – 2006
- Construction -- 2007
- Fuel transfer – 2008



A Safe, Secure Solution

- FPL committed to safety and security
- Protection assured through security program
- Access to dry storage to be strictly controlled



Questions Or Comments

- Sharing information and listening
- Building long-term relationships
- For more information, contact Alan Fata, 561-694-3810 or Nick Blount, 772-781-3118

